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1 [Exploiting perception in high-fidelity virtual environments](#)
Additional presentations from the 24th course are available on the citation Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
 July 2006 **SIGGRAPH '06: SIGGRAPH 2006 Courses**
Publisher: ACM [Request Permissions](#)

 Full text available: [Mov](#) (68:6 MIN), [Pdf](#) (5.07 MB) **Additional Information:** [full citation](#), [appendices](#), [abstract](#), [references](#), [citation](#)
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The objective of this course is to provide an introduction to the issues that must be building high-fidelity 3D engaging shared virtual environments. The principles of how to guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

2 [Verified interoperable implementations of security protocols](#)
Karthikeyan Bhargavan, Cedric Fournet, Andrew D. Gordon, Stephen Tse
 December 2008 **Transactions on Programming Languages and Systems (TOPLAS)**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (1.55 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index](#)
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We present an architecture and tools for verifying implementations of security protocols. Our implementations can run with both concrete and symbolic implementations of cryptographic algorithms. The concrete implementation is for production and interoperability ...

Keywords: Functional programming, Web services, XML security, pi calculus

3 [Annotating UI architecture with actual use](#)
Neil Ramsay, Stuart Marshall, Alex Potanin
 January 2008 **AUI C '08: Proceedings of the ninth conference on Australasian user interface research**
Volume 76, Volume 76

Publisher: Australian Computer Society, Inc.

 Full text available: [Pdf](#) (305.25 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 39, Citation Count: 0

Developing an appropriate user interface architecture for supporting a system's tasks is crucial to the system's overall usability. While there are principles to guide architectural design, there is no single 'correct' architecture. This paper presents a methodology for developing a user interface architecture that is tailored to the system's tasks and the system's overall usability. While there are principles to guide architectural design, there is no single 'correct' architecture. This paper presents a methodology for developing a user interface architecture that is tailored to the system's tasks and the system's overall usability.

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that the correct decisions are made can involve ...

Keywords: automated user testing, usage centered design, user interaction, user monitoring

4 [Secure compilation of a multi-tier web language](#)



[Ioannis G. Baltopoulos, Andrew D. Gordon](#)

January 2009 **TLDI '09**: Proceedings of the 4th international workshop on Types in lar implementation

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (552.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 67, Citation Count: 0

Storing state in the client tier (in forms or cookies, for example) improves the efficiency of the application, but it also renders the secrecy and integrity of stored data vulnerable to malicious clients. We study this general problem in the context of secure programming.

Keywords: compilers, cryptography, integrity, type systems, web application security, programming

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